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<211> 4135

<212> DNA

<213> Homo sapiens

<400> 77

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<211> 716

<212> PRT

<213> Homo sapiens

<400> 78

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 Ser Ser Asp Phe Ser Ser Ala Ser Ser Val Ser Ser Cys Gly Ala Val
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 Glu Ser Arg Ser Arg Gly Gly Ala Arg Ala Glu Arg Gln Pro Val Glu
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 Pro His Met Gly Val Gly Arg Gln Gln Arg Gly Pro Phe Gln Gly Val
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 Arg Pro Ala Leu Leu His Ser Gln Phe Leu Thr Pro Pro Gln Thr Pro
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 Thr Pro Gly Glu Ser Met Glu Asp Val His Leu Asn Glu Pro Lys Gln
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 Glu Ser Ser Ala Asp Leu Leu Gln Asn Ile Ile Asn Ile Lys Asn Glu
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 Cys Ser Pro Val Ser Leu Asn Thr Val Gln Val Ser Trp Leu Asn Pro
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 Val Val Val Pro Gln Ser Ser Pro Ala Glu Gln Cys Gln Asp Phe His
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 Gly Gly Gln Val Phe Ser Pro Pro Gln Lys Cys Gln Pro Phe Gln Val
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Pro Gln Asn Gln His Val Glu Gln Gln Pro His Tyr Thr His Lys Pro
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 Gly His Glu Met Ala Ser Asp Ser Ser Asn Thr Ser Leu Pro Phe Ser
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 Gln Trp Gln Val Glu Gln Glu Glu Ser Lys Leu Ala Asn Ile Ser Gln
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Ala Thr Asn Tyr Asp Gly Leu Thr Pro Leu His Cys Ala Val Ile Ala
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His Asn Ala Val Val His Glu Leu Gln Arg Asn Gln Gln Pro His Ser
565 570 575

Pro Glu Val Gln Glu Leu Leu Leu Lys Asn Lys Ser Leu Val Asp Thr
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Ile Lys Cys Leu Ile Gln Met Gly Ala Ala Val Glu Ala Lys Asp Arg
595 600 605

Lys Ser Gly Arg Thr Ala Leu His Leu Ala Ala Glu Glu Ala Asn Leu
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Glu Leu Ile Arg Leu Phe Leu Glu Leu Pro Ser Cys Leu Ser Phe Val
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Asn Ala Lys Ala Tyr Asn Gly Asn Thr Ala Leu His Val Ala Ala Ser
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Lys Gly Ala Asp Pro Ser Thr Arg Asn Leu Glu Asn Glu Gln Pro Val
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<211> 4046

<212> DNA

<213> Homo sapiens

<400> 79

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 <213> Homo sapiens

<400> 80

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35 40 45

Ile Glu Gln Phe Arg Glu Leu Lys Asn Thr Val Ser Tyr Ser Gly Lys
50 55 60

Arg Lys Gly Pro Asp Ser Leu Ser Asp Gly Pro Ala Cys Lys Arg Pro
65 70 75 80

Ala Leu Leu His Ser Gln Phe Leu Thr Pro Pro Gln Thr Pro Thr Pro
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Gly Glu Ser Met Glu Asp Val His Leu Asn Glu Pro Lys Gln Glu Ser
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Ser Ala Asp Leu Leu Gln Asn Ile Ile Asn Ile Lys Asn Glu Cys Ser
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Pro Val Ser Leu Asn Thr Val Gln Val Ser Trp Leu Asn Pro Val Val
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145 150 155 160

Gln Val Phe Ser Pro Pro Gln Lys Cys Gln Pro Phe Gln Val Arg Gly
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Ser Gln Gln Met Ile Asp Gln Ala Ser Leu Tyr Gln Tyr Ser Pro Gln
180 185 190

Asn Gln His Val Glu Gln Gln Pro His Tyr Thr His Lys Pro Thr Leu
195 200 205

Glu Tyr Ser Pro Phe Pro Ile Pro Pro Gln Ser Pro Ala Tyr Glu Pro
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Asn Leu Phe Asp Gly Pro Glu Ser Gln Phe Cys Pro Asn Gln Ser Leu
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 Cys Leu Ile Gln Met Gly Ala Ala Val Glu Ala Lys Asp Arg Lys Ser
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Lys Ala Tyr Asn Gly Asn Thr Ala Leu His Val Ala Ala Ser Leu Gln
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Tyr Arg Leu Thr Gln Leu Asp Ala Val Arg Leu Leu Met Arg Lys Gly
565 570 575

Ala Asp Pro Ser Thr Arg Asn Leu Glu Asn Glu Gln Pro Val His Leu
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<400> 86

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Leu	Asn	Leu	Trp	Trp	Ala	Ala	Trp	Asn	Thr	Trp	Tyr	Arg	Ile	Gly	Ser
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Glu	Ser	Thr	Lys	Pro	Pro	Ile	Thr	Phe	Asp	Lys	Leu	Thr	Phe	Ile	Pro
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Ser	Gln	Pro	Phe	Leu	Thr	Ala	Leu	Ile	Gln	Ile	Phe	Pro	Ala	Leu	Tyr
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Gln	His	Ile	Lys	Thr	Gly	Phe	Asn	Met	Asp	Asp	Leu	Gln	Lys	Leu	Gly
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Val	Ile	Leu	His	Ser	Ala	Ile	Ser	Val	Pro	Ile	Ser	Ser	Asp	Asp	Phe
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Ile	Leu	Pro	Ser	Tyr	Thr	Glu	Ala	Val	Leu	Thr	Ser	Leu	Gln	Glu	Ala
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Val	Leu	Thr	Ala	Leu	Asp	Val	Leu	Gln	Lys	Ala	Ile	Cys	Val	Gly	Pro
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Glu	Asn	Met	Gln	Ile	Met	Tyr	Pro	Ala	Ile	Phe	Asp	Gln	Leu	Leu	Ala
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Phe	Val	Glu	Phe	Ser	Cys	Lys	Pro	Pro	Gln	Tyr	Gly	Gln	Leu	Glu	Thr
				165					170					175	

Lys	His	Ile	Ala	Asn	Ala	Lys	Tyr	Asn	Gln	Ala	Glu	Trp	Val	Asn	Tyr
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180		185		190											
Val	Pro	Phe	Ala	Glu	Arg	Ser	Leu	Glu	Val	Val	Val	Asp	Leu	Tyr	Gln
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Ser	Glu	Ser	Thr	Trp	Lys	Leu	Ala	Val	Ser	Ser	Leu	Leu	Arg	Val	Leu
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Ser	Ile	Gly	Leu	Pro	Val	Ala	Arg	Gln	His	Ala	Ser	Ser	Gly	Lys	Phe
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Gln	Glu	Gly	Tyr	Ile	Ser	Arg	Met	Ala	Leu	Ser	Val	Leu	Leu	Lys	Arg
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Ser	Gln	Asp	Val	Leu	His	Arg	Tyr	Ile	Glu	Asp	Glu	Arg	Leu	Ser	Gly
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Lys	Cys	Pro	Leu	Pro	Arg	Gln	Gln	Val	Thr	Glu	Ile	Ile	Phe	Val	Leu
			420					425					430		
Lys	Ala	Val	Ser	Thr	Leu	Ile	Asp	Ser	Leu	Lys	Lys	Thr	Gln	Pro	Glu

435

440

445

Asn Val Asp Gly Asn Thr Trp Ala Gln Val Ile Ala Leu Tyr Pro Thr
450 455 460

Leu Val Glu Cys Ile Thr Cys Ser Ser Ser Glu Val Cys Ser Ala Leu
465 470 475 480

Lys Glu Ala Leu Val Pro Phe Lys Asp Phe Met Gln Pro Pro Ala Ser
485 490 495

Arg Val Gln Asn Gly Glu Ser
500